

SEQUENCE LISTING

<110> Anderson, Christen M.
 Davis, Robert E.
 Clevenger, William
 Wiley, Sandra Eileen
 Willer, Scott W.
 Szabo, Tomas R.
 Ghosh, Soumitra S.
 Moos, Walter H.
 Pei, Yazhong

<120> PRODUCTION OF ADENINE NUCLEOTIDE TRANSLOCATOR (ANT),
 NOVEL ANT LIGANDS AND SCREENING ASSAYS THEREFOR

<130> 660088.420D1

<140> US

<141> 2001-03-14

<160> 37

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 894

<212> DNA

<213> Homo sapien

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gccagcaaac	agatcagtgc	tgagaagcag	tacaaaggga	tcattgattg	tgtggtgaga	180
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ggggcgctg	gggccacctc	cctttgcttt	gtctaccgcg	tggactttgc	taggaccagg	420
ttggctgctg	atgtgggcag	gcgcgccccag	cgtgagttcc	atgggtctggg	cgactgtatc	480
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caaggcatca	ttatctatag	agctgcctac	ttcggagtct	atgatactgc	caaggggatg	600
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gcagtcgcag	ggctgctgtc	ctaccctttt	gacactgttc	gtcgtagaat	gatgatgcag	720
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gcaaaagacg	aaggagccaa	ggccttcttc	aaagggtgcct	ggtccaatgt	gctgagaggc	840
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<211> 897

<212> DNA

<213> Homo sapien

<400> 2

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gccagcaagc	agatcactgc	agataagcaa	tacaaaggca	ttatagactg	cgtgggtccgt	180
attcccaagg	agcaggaagt	tctgtccttc	tggcgcggta	acctggccaa	tgtcatcaga	240

tacttcccca	cccaggctct	taacttgcgc	ttcaaagata	aatacaagca	gatcttctctg	300
ggtggtgtgg	acaagagaac	ccagttttgg	cgctactttg	cagggaatct	ggcatcgggt	360
ggtgccgcag	gggccacatc	cctgtgtttt	gtgtaccctc	ttgattttgc	ccgtaccctg	420
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ctggttaaga	tctacaaatc	tgatgggatt	aagggcctgt	accaaggctt	taacgtgtct	540
gtgcagggtg	ttatcatcta	ccgagccgcc	tacttcggta	tctatgacac	tgcaaaggga	600
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cagtcagggc	gcaaaggaa	tgacatcatg	tacacaggca	cgcttgactg	ctggcggaag	780
attgctcgtg	atgaaggagg	caaagctttt	ttcaagggtg	catggtccaa	tgttctcaga	840
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<210> 3

<211> 897

<212> DNA

<213> Homo sapien

<400> 3

atgacggaac	aggccatctc	cttcgccaaa	gacttcttgg	ccggaggcat	cgccgccgcc	60
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gccagcaagc	agatcgccgc	cgacaagcag	tacaagggca	tcgtggactg	cattgtccgc	180
atccccaagg	agcaggcggt	gctgtccttc	tgagggggca	accttgccaa	cgctattcgc	240
tacttcccca	ctcaagccct	caacttgcgc	ttcaaggata	agtacaagca	gatcttctctg	300
gggggcgtgg	acaagcacac	gcagttctgg	aggtactttg	cgggcaacct	ggcctccggc	360
ggtgcggccg	gcgcgacctc	cctctgcttc	gtgtaccgcg	tgatttttgc	cagaaccgcg	420
ctggcagcgg	acgtgggaaa	gtcaggcaca	gagcgcgagt	tccgaggcct	gggagactgc	480
ctggtgaaga	tcaccaagtc	cgacggcatc	cggggcctgt	accagggctt	cagtgtctcc	540
gtgcagggca	tcatcatcta	ccgggcggcc	tacttcggcg	tgtacgatac	ggccaagggc	600
atgctccccg	accccaagaa	cacgcacatc	gtggtgagct	ggatgatcgc	gcagaccgtg	660
acggccggtg	ccggcggtgt	gtcctacccc	ttcgacacgg	tgccgcggcg	catgatgatg	720
cagtcggggc	gcaaaggagc	tgacatcatg	tacacgggca	ccgtcgactg	ttggagggaag	780
atcttcagag	atgagggggg	caaggccttc	ttcaagggtg	cgtggtccaa	cgctctgcgg	840
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<211> 43

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 4

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<210> 5

<211> 43

<212> DNA

<213> Artificial Sequence

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<223> PCR Primer

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<210> 6

<211> 43
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 <213> Artificial Sequence

<220>
 <223> PCR Primer

<400> 6
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<210> 7
 <211> 43
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR Primer

<400> 7
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<210> 8
 <211> 43
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR Primer

<400> 8
 ttatatctcg agtatgacgg aacaggccat ctccttcgcc aaa 43

<210> 9
 <211> 44
 <212> DNA
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<220>
 <223> PCR Primer

<400> 9
 tatataggta ccttagagtc accttcttga gtcgctcgta cagg 44

<210> 10
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Sequence primer

<400> 10
 tatgccatag catttttatc c 21

<210> 11
 <211> 18
 <212> DNA

<213> Artificial Sequence

<220>

<223> Sequence primer

<400> 11

cgccaaaaca gccaaagt

18

<210> 12

<211> 45

<212> DNA

<213> Artificial Sequence

<220>

<223> Mutagenic oligonucleotide primer

<400> 12

ggagatggcc tgttccgtca tcttatcgtc atcgtcgtac agatc

45

<210> 13

<211> 45

<212> DNA

<213> Artificial Sequence

<220>

<223> Mutagenic oligonucleotide primer

<400> 13

gatctgtacg acgatgacga taagatgacg gaacaggcca tctcc

45

<210> 14

<211> 35

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 14

cccggggaat tctgatgacg gaacaggcca tctcc

35

<210> 15

<211> 34

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 15

cccgggctcg agtttagagtc accttcttga gctc

34

<210> 16

<211> 41

<212> DNA

<213> Artificial Sequence

<220>
 <223> PCR primer

 <400> 16
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 <400> 17
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 <210> 18
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 <220>
 <223> Sequencing primer

 <400> 18
 aaatgataac catctcgc 18

 <210> 19
 <211> 18
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Sequencing primer

 <400> 19
 acttcaagga gaatttcc 18

 <210> 20
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 <400> 20
 acttcgcctt cacggata 18

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<400> 21
tacggccaag ggcattct 18

<210> 22
<211> 18
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<400> 22
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<210> 23
<211> 18
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<220>
<223> Sequencing primer

<400> 23
atgccggttc ccgtacga 18

<210> 24
<211> 31
<212> DNA
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<220>
<223> Mutagenic oligonucleotide primer

<400> 24
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<210> 25
<211> 31
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<213> Artificial Sequence

<220>
<223> Mutagenic oligonucleotide primer

<400> 25
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<210> 26
<211> 41
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer

<400> 26

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<210> 27
 <211> 41
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 27
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<210> 28
 <211> 42
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 28
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<210> 29
 <211> 42
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 29
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<210> 30
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic polypeptide

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 1 5 10 15

<210> 31
 <211> 297
 <212> PRT
 <213> Homo sapien

<400> 31
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 20 25 30

Lys Leu Leu Leu Gln Val Gln His Ala Ser Lys Gln Ile Ser Ala Glu
 35 40 45
 Lys Gln Tyr Lys Gly Ile Ile Asp Cys Val Val Arg Ile Pro Lys Glu
 50 55 60
 Gln Gly Phe Leu Ser Phe Trp Arg Gly Asn Leu Ala Asn Val Ile Arg
 65 70 75 80
 Tyr Phe Pro Thr Gln Ala Leu Asn Phe Ala Phe Lys Asp Lys Tyr Lys
 85 90 95
 Gln Leu Phe Leu Gly Gly Val Asp Arg His Lys Gln Phe Trp Arg Tyr
 100 105 110
 Phe Ala Gly Asn Leu Ala Ser Gly Gly Ala Ala Gly Ala Thr Ser Leu
 115 120 125
 Cys Phe Val Tyr Pro Leu Asp Phe Ala Arg Thr Arg Leu Ala Ala Asp
 130 135 140
 Val Gly Arg Arg Ala Gln Arg Glu Phe His Gly Leu Gly Asp Cys Ile
 145 150 155 160
 Ile Lys Ile Phe Lys Ser Asp Gly Leu Arg Gly Leu Tyr Gln Gly Phe
 165 170 175
 Asn Val Ser Val Gln Gly Ile Ile Ile Tyr Arg Ala Ala Tyr Phe Gly
 180 185 190
 Val Tyr Asp Thr Ala Lys Gly Met Leu Pro Asp Pro Lys Asn Val His
 195 200 205
 Ile Phe Val Ser Trp Met Ile Ala Gln Ser Val Thr Ala Val Ala Gly
 210 215 220
 Leu Leu Ser Tyr Pro Phe Asp Thr Val Arg Arg Arg Met Met Met Gln
 225 230 235 240
 Ser Gly Arg Lys Gly Ala Asp Ile Met Tyr Thr Gly Thr Val Asp Cys
 245 250 255
 Trp Arg Lys Ile Ala Lys Asp Glu Gly Ala Lys Ala Phe Phe Lys Gly
 260 265 270
 Ala Trp Ser Asn Val Leu Arg Gly Met Gly Gly Ala Phe Val Leu Val
 275 280 285
 Leu Tyr Asp Glu Ile Lys Lys Tyr Val
 290 295

<210> 32

<211> 298

<212> PRT

<213> Homo sapien

<400> 32

Met Thr Asp Ala Ala Leu Ser Phe Ala Lys Asp Phe Leu Ala Gly Gly
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 Val Ala Ala Ala Ile Ser Lys Thr Ala Val Ala Pro Ile Glu Arg Val
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 Lys Leu Leu Leu Gln Val Gln His Ala Ser Lys Gln Ile Thr Ala Asp
 35 40 45
 Lys Gln Tyr Lys Gly Ile Ile Asp Cys Val Val Arg Ile Pro Lys Glu
 50 55 60
 Gln Glu Val Leu Ser Phe Trp Arg Gly Asn Leu Ala Asn Val Ile Arg
 65 70 75 80
 Tyr Phe Pro Thr Gln Ala Leu Asn Phe Ala Phe Lys Asp Lys Tyr Lys
 85 90 95
 Gln Ile Phe Leu Gly Gly Val Asp Lys Arg Thr Gln Phe Trp Arg Tyr
 100 105 110
 Phe Ala Gly Asn Leu Ala Ser Gly Gly Ala Ala Gly Ala Thr Ser Leu
 115 120 125

Cys Phe Val Tyr Pro Leu Asp Phe Ala Arg Thr Arg Leu Ala Ala Asp
 130 135 140
 Val Gly Lys Ala Gly Ala Glu Arg Glu Phe Arg Gly Leu Gly Asp Cys
 145 150 155 160
 Leu Val Lys Ile Tyr Lys Ser Asp Gly Ile Lys Gly Leu Tyr Gln Gly
 165 170 175
 Phe Asn Val Ser Val Gln Gly Ile Ile Tyr Arg Ala Ala Tyr Phe
 180 185 190
 Gly Ile Tyr Asp Thr Ala Lys Gly Met Leu Pro Asp Pro Lys Asn Thr
 195 200 205
 His Ile Val Ile Ser Trp Met Ile Ala Gln Thr Val Thr Ala Val Ala
 210 215 220
 Gly Leu Thr Ser Tyr Pro Phe Asp Thr Val Arg Arg Arg Met Met Met
 225 230 235 240
 Gln Ser Gly Arg Lys Gly Thr Asp Ile Met Tyr Thr Gly Thr Leu Asp
 245 250 255
 Cys Trp Arg Lys Ile Ala Arg Asp Glu Gly Gly Lys Ala Phe Phe Lys
 260 265 270
 Gly Ala Trp Ser Asn Val Leu Arg Gly Met Gly Gly Ala Phe Val Leu
 275 280 285
 Val Leu Tyr Asp Glu Ile Lys Lys Tyr Thr
 290 295

<210> 33
 <211> 298
 <212> PRT
 <213> Homo sapien

<400> 33
 Met Thr Glu Gln Ala Ile Ser Phe Ala Lys Asp Phe Leu Ala Gly Gly
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 Ile Ala Ala Ala Ile Ser Lys Thr Ala Val Ala Pro Ile Glu Arg Val
 20 25 30
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 35 40 45
 Lys Gln Tyr Lys Gly Ile Val Asp Cys Ile Val Arg Ile Pro Lys Glu
 50 55 60
 Gln Gly Val Leu Ser Phe Trp Arg Gly Asn Leu Ala Asn Val Ile Arg
 65 70 75 80
 Tyr Phe Pro Thr Gln Ala Leu Asn Phe Ala Phe Lys Asp Lys Tyr Lys
 85 90 95
 Gln Ile Phe Leu Gly Gly Val Asp Lys His Thr Gln Phe Trp Arg Tyr
 100 105 110
 Phe Ala Gly Asn Leu Ala Ser Gly Gly Ala Ala Gly Ala Thr Ser Leu
 115 120 125
 Cys Phe Val Tyr Pro Leu Asp Phe Ala Arg Thr Arg Leu Ala Ala Asp
 130 135 140
 Val Gly Lys Ser Gly Thr Glu Arg Glu Phe Arg Gly Leu Gly Asp Cys
 145 150 155 160
 Leu Val Lys Ile Thr Lys Ser Asp Gly Ile Arg Gly Leu Tyr Gln Gly
 165 170 175
 Phe Ser Val Ser Val Gln Gly Ile Ile Ile Tyr Arg Ala Ala Tyr Phe
 180 185 190
 Gly Val Tyr Asp Thr Ala Lys Gly Met Leu Pro Asp Pro Lys Asn Thr
 195 200 205
 His Ile Val Val Ser Trp Met Ile Ala Gln Thr Val Thr Ala Val Ala
 210 215 220

Gly Val Val Ser Tyr Pro Phe Asp Thr Val Arg Arg Arg Met Met Met
 225 230 235 240
 Gln Ser Gly Arg Lys Gly Ala Asp Ile Met Tyr Thr Gly Thr Val Asp
 245 250 255
 Cys Trp Arg Lys Ile Phe Arg Asp Glu Gly Gly Lys Ala Phe Phe Lys
 260 265 270
 Gly Ala Trp Ser Asn Val Leu Arg Gly Met Gly Gly Ala Phe Val Leu
 275 280 285
 Val Leu Tyr Asp Glu Leu Lys Lys Val Ile
 290 295

<210> 34
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 <213> Artificial Sequence

<220>
 <223> Primer for PCR amplification of human ANT3 for
 expression construct

<400> 34
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<210> 35
 <211> 42
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer for PCR amplification of human ANT3 for
 expression construct

<400> 35
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<210> 36
 <211> 30
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer for PCR amplification of EYFP

<400> 36
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<210> 37
 <211> 33
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer for PCR amplification of EYFP

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